



Advanced Structural Inorganic Chemistry (International Union of Crystallography Texts on Crystallography)

By Wai-Kee Li, Gong-Du Zhou, Thomas Mak

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A revised and updated English version of a postgraduate textbook based on teaching. The term "inorganic" is used in a broad sense as the book covers the structural chemistry of representative elements (including carbon) in the Periodic Table, organometallics, coordination polymers, host-guest systems and supramolecular assemblies.

Part I of the book reviews the basic bonding theories, including a chapter on computational chemistry. Part II introduces point groups and space groups and their chemical applications. Part III comprises a succinct account of the structural chemistry of the elements in the periodic table. It presents structure and bonding, generalizations of structural trends, crystallographic data, as well as highlights from the recent literature.

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Editorial Review

Review

'This book will go a long way in improving the understanding of modern chemical crystallography among the general chemistry community.'

Gautam R. Desiraju, University of Hyderabad

'The book has quite a nice focus bringing together both theoretical and practical aspects of bonding and structure and blending these with crystal data. It is very well written, in an interesting way, and strikes a nice level - deliberately not going too deep, but putting various approaches in context.'

Ted Baker, University of Auckland

'The writing is good and clear. The book should have a considerable market. There is a need for an advanced treatment such as this.'

Mike Glazer, University of Oxford

About the Author

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Wai-Kee Li obtained his B.S. degree from University of Illinois in 1964 and his Ph.D. degree from University of Michigan in 1968. He joined The Chinese University of Hong Kong in July, 1968 and is now Professor of Chemistry. He has taught a variety of courses in physical and inorganic chemistry and won many teaching awards. His research interests in theoretical and computational chemistry have led to about 180 papers in international journals. Gong-Du Zhou, Professor Emeritus, Department of Chemistry, Peking University

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